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**1** Computer architecture and mental models 77%



Cecile Yehezkel , Mordechai Ben-Ari , Tommy Dreyfus

**ACM SIGCSE Bulletin , Proceedings of the 36th SIGCSE technical symposium on Computer science education** February 2005

Volume 37 Issue 1

The EasyCPU visualization environment was developed for teaching computer architecture to novice students of computer science. During the development, the process of choosing the appropriate conceptual model of the computer for the visualization motivated research on the *mental models* that arise in the students as they learn. These mental models come from attempts by the students to make sense of the *conceptual models* presented to them by the software tool and their learning materi ...

**2** Towards Personal MT: general design, dialogue structure, potential role 77%



of speech

Christian Boitet

**Proceedings of the 13th conference on Computational linguistics - Volume 2**

August 1990

*Personal MT (PMT)* is a new concept in *dialogue-based MT (DBMT)*, which we are currently studying and prototyping in the LIDIA project Ideally, a PMT system should run on PCs and be usable by everybody. To get his/her text translated into one or several languages, the writer would accept to cooperate with the system in order to standardize and clarify his/her document. There are many interesting aspects in the design of such a system. The paper briefly presents some of them (HyperTex ...

**3** Dictionary I: Experiments with an MT-directed lexical knowledge bank 77%



B. C. Papegaaïj , V. Sadler , A. P. M. Witkam

**Proceedings of the 11th conference on Computational linguistics** August 1986

A crucial test for any MT system is its power to solve lexical ambiguities. The size of the lexicon, its structural principles and the availability of extra-linguistic knowledge are the most important aspects in this respect. This paper outlines the

experimental development of the <u>SWESIL</u> system: a structured lexicon-based word expert system designed to play a pivotal role in the process of <u>Distributed Language Translation</u> ...

#### 4 Morphological rule induction for terminology acquisition 77%



Béatrice Daille

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#### 5 Prior knowledge and preferential structures in gradient descent learning algorithms 77%



Robert E. Mahony , Robert C. Williamson

**The Journal of Machine Learning Research** September 2001  
Volume 1

A family of gradient descent algorithms for learning linear functions in an online setting is considered. The family includes the classical LMS algorithm as well as new variants such as the Exponentiated Gradient (EG) algorithm due to Kivinen and Warmuth. The algorithms are based on prior distributions defined on the weight space. Techniques from differential geometry are used to develop the algorithms as gradient descent iterations with respect to the natural gradient in the Riemannian structur ...

#### 6 The state of the art in distributed query processing 77%



Donald Kossmann

**ACM Computing Surveys (CSUR)** December 2000  
Volume 32 Issue 4

Distributed data processing is becoming a reality. Businesses want to do it for many reasons, and they often must do it in order to stay competitive. While much of the infrastructure for distributed data processing is already there (e.g., modern network technology), a number of issues make distributed data processing still a complex undertaking: (1) distributed systems can become very large, involving thousands of heterogeneous sites including PCs and mainframe server machines; (2) the stat ...

#### 7 Language Translation 77%



A. F. R. Brown

**Journal of the ACM (JACM)** January 1958  
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#### 8 Performance measurement of paging behavior in multiprogramming systems 77%



M. I. Malkawi , J. H. Patel

**ACM SIGARCH Computer Architecture News , Proceedings of the 13th annual international symposium on Computer architecture June 1986**

Volume 14 Issue 2

This paper presents empirical results on the performance of CD, a compiler directed memory management policy, and the Working Set policy in a multiprogramming system. A description of the multiprogramming model used in the experiments is also presented. The results show that CD outperforms WS in terms of fault rate, space time cost, and throughput characteristics. Moreover, WS is shown to lack controllability. Two anomaly types are reported in this paper, both of which are exhibited by WS b ...

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